

1. A thermoplastic composition comprising:  
from about 1 % by weight to 25 % by weight block copolymer having the  
formula (A-B)<sub>x</sub> where the A block comprises polyvinylarene, the B block  
comprises poly(monoalkenyl), and x is an integer of at least one;

5 from about 45 % by weight to about 75 % by weight superabsorbent  
polymer particles comprising polyacrylate and having an average particle diameter  
of from 20  $\mu\text{m}$  to 30  $\mu\text{m}$ ; and  
from about 15 % by weight to about 40 % by weight plasticizing oil.

10 2. The thermoplastic composition of claim 1, further comprising surfactant.

15 3. The thermoplastic composition of claim 21, further comprising from about  
1% by weight to about 5 % by weight surfactant.

20 4. The thermoplastic composition of claim 1, comprising from 60 % by  
weight to about 75 % by weight said superabsorbent polymer.

25 5. The thermoplastic composition of claim 1, wherein the block copolymer is  
selected from the group consisting of styrene-isoprene-styrene, styrene-ethylene-butylene-  
styrene, styrene-ethylene-propylene-styrene, styrene-butadiene-styrene and combinations  
thereof

6. The thermoplastic composition of claim 1, wherein said composition  
exhibits a water gel time of no greater than 2 minutes.

7. The thermoplastic composition of claim 1, wherein said composition  
exhibits a water gel time of no greater than 1.5 minutes.

30 8. The thermoplastic composition of claim 1, wherein said composition  
exhibits a water gel time of no greater than 1 minute.

9. The thermoplastic composition of claim 1, wherein said composition exhibits a 0.9 % saline solution gel time of no greater than 4 hours.

10. The thermoplastic composition of claim 1, wherein said composition 5 exhibits a 0.9 % saline solution gel time of no greater than 1 hour.

11. The thermoplastic composition of claim 1, wherein said composition exhibits a 0.9 % saline solution gel time of no greater than 25 minutes.

10 12. The thermoplastic composition of claim 1, wherein said composition exhibits a 0.9 % saline solution gel time of no greater than 10 minutes.

15 13. The thermoplastic composition of claim 1, wherein said composition exhibits a 0.9 % saline solution gel time of no greater than 5 minutes.

14. The thermoplastic composition of claim 1, wherein said composition exhibits an absorbent capacity of at least 60 g water/g of composition.

15 15. The thermoplastic composition of claim 1, wherein said composition 20 exhibits an absorbent capacity of at least 70 g water/g of composition.

16. The thermoplastic composition of claim 1, wherein said composition exhibits an absorbent capacity of at least 90 g water/g of composition.

25 17. The thermoplastic composition of claim 1, wherein said composition exhibits an absorbent capacity of at least 100 g water/g of composition.

18. The thermoplastic composition of claim 1, wherein said composition exhibits an absorbent capacity of at least 110 g water/g of composition.

19. The thermoplastic composition of claim 1, wherein said composition exhibits an absorbent capacity of at least 25 g 0.9 % saline solution/g of composition.

20. The thermoplastic composition of claim 1, wherein said composition 5 exhibits an absorbent capacity of at least 30 g 0.9 % saline solution/g of composition.

21. The thermoplastic composition of claim 1, wherein said composition exhibits an absorbent capacity of at least 35 g 0.9 % saline solution/g of composition.

10 22. A thermoplastic composition comprising:  
block copolymer having the formula (A-B) $x$  where the A block comprises polyvinylarene, the B block comprises poly(monoalkenyl), and x is an integer of at least one;  
superabsorbent particles comprising polyacrylate and having an average particle diameter of from 20  $\mu\text{m}$  to 30  $\mu\text{m}$ ; and  
plasticizing oil,  
said composition exhibiting water gel time of no greater than 2 minutes.

15 23. The thermoplastic composition of claim 22, wherein said block copolymer 20 is selected from the group consisting of styrene-isoprene-styrene, styrene-ethylene-butylene-styrene, styrene-ethylene-propylene-styrene, styrene-butadiene-styrene and combinations thereof

25 24. A thermoplastic composition comprising:  
block copolymer having the formula (A-B) $x$  where the A block comprises polyvinylarene, the B block comprises poly(monoalkenyl), and x is an integer of at least one;  
superabsorbent particles comprising polyacrylate and having an average particle diameter of from 20  $\mu\text{m}$  to 30  $\mu\text{m}$ ; and  
30 plasticizing oil,

said composition exhibiting a 0.9 % saline solution gel time of no greater than 1 hour.

25. A thermoplastic composition comprising:

block copolymer having the formula (A-B)<sub>x</sub> where the A block comprises polyvinylarene, the B block comprises poly(monoalkenyl), and x is an integer of at least one;

superabsorbent particles comprising polyacrylate and having an average particle diameter of from 20  $\mu\text{m}$  to 30  $\mu\text{m}$ ; and

plasticizing oil,

said composition exhibiting an absorbent capacity of at least 70 g water/g of composition.

26. A thermoplastic composition comprising:

block copolymer having the formula (A-B)<sub>x</sub> where the A block comprises polyvinylarene, the B block comprises poly(monoalkenyl), and x is an integer of at least one;

superabsorbent particles comprising polyacrylate and having an average particle diameter of from 20  $\mu\text{m}$  to 30  $\mu\text{m}$ ; and

plasticizing oil,

said composition exhibiting an absorbent capacity of at least 25 g 0.9 % aqueous saline solution/g of composition.

27. A thermoplastic adhesive composition comprising:

from about 1 % by weight to 25 % by weight block copolymer having the formula (A-B)<sub>x</sub> where the A block comprises polyvinylarene, the B block comprises poly(monoalkenyl), and x is an integer of at least one;

from about 45 % by weight to about 75 % by weight superabsorbent polymer particles comprising polyacrylate and having an average particle diameter of from 20  $\mu\text{m}$  to 30  $\mu\text{m}$ ;

tackifying agent; and

from about 15% by weight to about 40% by weight plasticizing oil.

28. An absorbent article comprising:  
an absorbent core;  
5 the thermoplastic composition of claim 1 incorporated in said absorbent core.
29. An absorbent article comprising:  
an absorbent core; and  
10 the thermoplastic composition of claim 1 disposed on said absorbent core.
30. An absorbent article comprising:  
a liquid permeable sheet;  
a liquid impermeable barrier sheet;  
15 an absorbent element disposed between the liquid permeable sheet and the barrier sheet; and  
the thermoplastic composition of claim 1 disposed on at least one of said liquid permeable sheet, said barrier sheet and said absorbent element.
31. An absorbent article according to claim 32 selected from the group  
20 consisting of disposable diapers, sanitary napkins, wound care products, wipes, towels and tissues.
32. An absorbent article comprising:  
25 a liquid permeable sheet;  
a liquid impermeable barrier sheet;  
an absorbent element disposed between the liquid permeable sheet and the barrier sheet; and  
the thermoplastic composition of claim 1 incorporated in said absorbent  
30 element.

33. A thermoplastic composition comprising:  
block copolymer having the formula (A-B) $x$  where the A block comprises polyvinylarene, the B block comprises poly(monoalkenyl), and  $x$  is an integer of at least one;

5 spherical superabsorbent particles comprising polyacrylate; and  
plasticizing oil,

said composition exhibiting a water gel time of no greater than 2 minutes, a viscosity of no greater than 100,000 centipoise at 300°F and a wet tensile strength of at least 15 g/in<sup>2</sup>.

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34. The thermoplastic composition of claim 34, wherein said composition exhibits a 0.9 % saline solution gel time of no greater than 1 hour.

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35. The thermoplastic composition of claim 34, wherein said composition exhibits a 0.9 % saline solution gel time of no greater than 10 minutes.

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36. The thermoplastic composition of claim 34, wherein said composition exhibits a water gel time of no greater than 1.5 minutes, a viscosity of no greater than 30,000 centipoise and a wet tensile strength of at least 40 g/in<sup>2</sup>.

37. The thermoplastic composition of claim 34, wherein said composition exhibits an absorption capacity of at least 70 g water/g composition.

38. A thermoplastic composition comprising:

25 from about 1 % by weight to 25 % by weight block copolymer having the formula (A-B) $x$  where the A block comprises polyvinylarene, the B block comprises poly(monoalkenyl), and  $x$  is an integer of at least one;

from about 45 % by weight to about 75 % by weight superabsorbent polymer particles that include polyacrylate; and

30 from about 15 % by weight to about 40 % by weight plasticizing oil,

said composition exhibiting a water gel time of no greater than 2 minutes, and an absorption capacity of at least 70 g water/g composition and at least 10 g 0.9% saline solution/g composition.